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SEQUENCE LISTING

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Celis, Esteban
Keogh, Elissa

<120> Inducing Cellular Immune Responses To
p53 Using Peptide And Nucleic Acid Compositions

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<141> 1999-12-10

<150> US 09/017,735
<151> 1998-02-03

<150> PCT/US99/13789
<151> 1999-06-17

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Met Phe Arg Glu Leu Asn Glu Ala Leu Glu Leu

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Thr Tyr Ser Pro Ala Leu Asn Lys Met Phe
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Ala Lys Ser Val Thr Cys Thr Tyr Ser Pro Ala Leu Asn Lys Met
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Ala	Pro	Ser	Trp	Pro	Leu	Ser	Ser	Ser	Val	Pro	Ser	Gln	Lys	Thr
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Cys	Thr	Thr	Ile	His	Tyr	Asn	Tyr	Met	Cys	Asn	Ser	Ser	Cys	Met
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Asp	Gly	Glu	Tyr	Phe	Thr	Leu	Gln	Ile	Arg	Gly	Arg	Glu	Arg	Phe
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Asp Leu Met Leu Ser Pro Asp Asp Ile Glu Gln Trp Phe Thr Glu
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Asp Pro Ser Val Glu Pro Pro Leu Ser Gln Glu Thr Phe Ser Asp
1 5 10 15

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Glu Gly Asn Leu Arg Val Glu Tyr Leu Asp Asp Arg Asn Thr Phe
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Glu Asn Asn Val Leu Ser Pro Leu Pro Ser Gln Ala Met Asp Asp
1 5 10 15

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1 5 10 15

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Gly Phe Arg Leu Gly Phe Leu His Ser Gly Thr Ala Lys Ser Val
1 5 10 15

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Gly Thr Arg Val Arg Ala Met Ala Ile Tyr Lys Gln Ser Gln His
1 5 10 15

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His His Glu Leu Pro Pro Gly Ser Thr Lys Arg Ala Leu Pro Asn
1 5 10 15

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His	Tyr	Asn	Tyr	Met	Cys	Asn	Ser	Ser	Cys	Met	Gly	Gly	Met	Asn
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Lys	Arg	Ala	Leu	Pro	Asn	Asn	Thr	Ser	Ser	Ser	Pro	Gln	Pro	Lys
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Leu	Asn	Lys	Met	Phe	Cys	Gln	Leu	Ala	Lys	Thr	Cys	Pro	Val	Gln
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Asn	Glu	Ala	Leu	Glu	Leu	Lys	Asp	Ala	Gln	Ala	Gly	Lys	Glu	Pro
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Pro	Asp	Asp	Ile	Glu	Gln	Trp	Phe	Thr	Glu	Asp	Pro	Gly	Pro	Asp
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Pro	Pro	Glu	Val	Gly	Ser	Asp	Cys	Thr	Thr	Ile	His	Tyr	Asn	Tyr
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1 5 10 15

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1 5 10 15

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Val	Val	Pro	Tyr	Glu	Pro	Pro	Glu	Val	Gly	Ser	Asp	Cys	Thr	Thr
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Trp	Lys	Leu	Leu	Pro	Glu	Asn	Asn	Val	Leu	Ser	Pro	Leu	Pro	Ser
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Glu	Gly	Asn	Leu	Arg	Val	Glu	Tyr	Leu	Asp	Asp	Arg	Asn	Thr	Phe
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Glu	Pro	Pro	Leu	Ser	Gln	Glu	Thr	Phe	Ser	Asp	Leu	Trp	Lys	Leu
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1 5 10 15

<210> 1114
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<220>
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<400> 1114
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1 5 10 15

<210> 1115
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Pro Val Gln Leu Trp Val Asp Ser Thr Pro Pro Pro Gly Thr Arg
1 5 10 15

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1 5 10 15

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<400> 1118
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1 5 10 15

<210> 1119
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1 5 10 15

<210> 1121
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1 5 10 15

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1 5 10 15

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<210> 1127

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<223> Synthetic Peptide

<400> 1130

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<210> 1131

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<220>

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<211> 9

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<220>

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1 5

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<223> Synthetic Peptide

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<212> PRT

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1 5

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1 5

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1 5

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1 5

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1 5

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1 5

<210> 1173
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<210> 1177

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Leu Asp Gly Glu Tyr Phe Thr Leu Gln
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<400> 1179

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1 5

<210> 1180

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<400> 1180

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1 5

<210> 1181

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<400> 1181

Leu Trp Val Asp Ser Thr Pro Pro Pro
1 5

<210> 1182

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<400> 1182

Ile Arg Val Glu Gly Asn Leu Arg Val
1 5

<210> 1183

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Met Phe Arg Glu Leu Asn Glu Ala Leu
1 5

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1 5

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1 5

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Phe Leu Pro Ser Asp Tyr Phe Pro Ser Val

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Phe Leu Pro Ser Asp Tyr Phe Pro Ser Val

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1 5

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Ala Val Asp Leu Tyr His Phe Leu Lys
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Ser Thr Leu Pro Glu Thr Tyr Val Val Arg Arg
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<400> 1201

Lys Val Phe Pro Tyr Ala Leu Ile Asn Lys
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<213> Artificial Sequence

<220>

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<400> 1202

Ala Tyr Ile Asp Asn Tyr Asn Lys Phe
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<400> 1203

Ala Pro Arg Thr Leu Val Tyr Leu Leu
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Tyr	Met	Cys	Asn	Ser	Ser	Cys	Met	Gly	Gly	Met
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<211> 11

<212> PRT

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<220>

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<400> 1439

Tyr	Leu	Cys	Asn	Ser	Ser	Cys	Met	Gly	Gly	Val
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<211> 11

<212> PRT

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<220>

<223> Synthetic Peptide

<400> 1440

Ile	Thr	Leu	Glu	Asp	Ser	Ser	Gly	Asn	Leu	Leu
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<210> 1441

<211> 11

<212> PRT

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<223> Synthetic Peptide

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Ile	Leu	Leu	Glu	Asp	Ser	Ser	Gly	Asn	Leu	Val
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<212> PRT
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Ala Ala Pro Pro Val Ala Pro Ala
1 5

<210> 1443
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<220>
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<400> 1443
Ala Leu Pro Pro Val Ala Pro Val
1 5

<210> 1444
<211> 9
<212> PRT
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<220>
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<400> 1444
Ala Leu Asn Lys Met Phe Cys Gln Leu
1 5

<210> 1445
<211> 9
<212> PRT
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<220>
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Ala Leu Asn Lys Met Phe Cys Gln Val
1 5

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Ala Leu Asn Lys Met Phe Asx Gln Val
1 5

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Lys Met Phe Cys Gln Leu Ala Lys Thr
1 5

<210> 1448
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Lys Met Phe Cys Gln Leu Ala Lys Val
1 5

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Lys Met Phe Asx Gln Leu Ala Lys Val
1 5

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Lys Thr Cys Pro Val Gln Leu Trp Val

1 5

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Lys Leu Cys Pro Val Gln Leu Trp Val
1 5

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1 5

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Ser Thr Pro Pro Pro Gly Thr Arg Val
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Ser Leu Pro Pro Pro Gly Thr Arg Val
1 5

<210> 1456
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<400> 1456

Ser Met Pro Pro Gly Thr Arg Val
1 5

<210> 1457

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Val Val Val Pro Tyr Glu Pro Pro Glu Val
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<210> 1458

<211> 10

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<220>

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<400> 1458

Val Leu Val Pro Tyr Glu Pro Pro Glu Val
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<210> 1459

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

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<400> 1459

Ile Thr Leu Glu Asp Ser Ser Gly Asn Leu Leu
1 5 10

<210> 1460

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 1460

Ile Leu Leu Glu Asp Ser Ser Gly Asn Leu Val
1 5 10

<210> 1461

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 1461

Gly	Phe	Arg	Leu	Gly	Phe	Leu	His	Ser	Gly	Thr	Ala	Lys	Ser	Val
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<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 1462

Leu	Asn	Lys	Met	Phe	Cys	Gln	Leu	Ala	Lys	Thr	Cys	Pro	Val	Gln
1				5					10					15

<210> 1463

<211> 15

<212> PRT

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<220>

<223> Synthetic Peptide

<400> 1463

Met	Gly	Gly	Met	Asn	Arg	Arg	Pro	Ile	Leu	Thr	Ile	Ile	Thr	Leu
1				5					10					15

<210> 1464

<211> 15

<212> PRT

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<220>

<223> Synthetic Peptide

<400> 1464

Arg	Arg	Pro	Ile	Leu	Thr	Ile	Ile	Thr	Leu	Glu	Asp	Ser	Ser	Gly
1				5					10					15

<210> 1465

<211> 15

<212> PRT

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<220>

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<400> 1465

Lys	Arg	Ala	Leu	Pro	Asn	Asn	Thr	Ser	Ser	Ser	Pro	Gln	Pro	Lys
1				5					10					15

<210> 1466

<211> 15

<212> PRT
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Asp Gly Glu Tyr Phe Thr Leu Gln Ile Arg Gly Arg Glu Arg Phe
1 5 10 15

<210> 1467
<211> 15
<212> PRT
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<220>
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Gly Phe Arg Leu Gly Phe Leu His Ser Gly Thr Ala Lys Ser Val
1 5 10 15

<210> 1468
<211> 14
<212> PRT
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Leu Asn Lys Met Phe Cys Gln Leu Ala Lys Thr Cys Pro Val
1 5 10

<210> 1469
<211> 15
<212> PRT
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<220>
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Glu Pro Pro Leu Ser Gln Glu Thr Phe Ser Asp Leu Trp Lys Leu
1 5 10 15

<210> 1470
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<212> PRT
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Leu Trp Lys Leu Leu Pro Glu Asn Asn Val Leu Ser Pro Leu Pro
1 5 10 15

<210> 1471
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<212> PRT
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<220>
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Asp Leu Met Leu Ser Pro Asp Asp Ile Glu Gln Trp Phe Thr Glu
1 5 10 15

<210> 1472
<211> 15
<212> PRT
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<220>
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<400> 1472
Glu Gln Trp Phe Thr Glu Asp Pro Gly Pro Asp Glu Ala Pro Arg
1 5 10 15

<210> 1473
<211> 15
<212> PRT
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<400> 1473
Pro Val Gln Leu Trp Val Asp Ser Thr Pro Pro Pro Gly Thr Arg
1 5 10 15

<210> 1474
<211> 15
<212> PRT
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<400> 1474
Met Ala Ile Tyr Lys Gln Ser Gln His Met Thr Glu Val Val Arg
1 5 10 15

<210> 1475
<211> 15
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Gln His Leu Ile Arg Val Glu Gly Asn Leu Arg Val Glu Tyr Leu

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<210> 1476
<211> 15
<212> PRT
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<400> 1476
Leu Ile Arg Val Glu Gly Asn Leu Arg Val Glu Tyr Leu Asp Asp
1 5 10 15

<210> 1477
<211> 15
<212> PRT
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<220>
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<400> 1477
Glu Gly Asn Leu Arg Val Glu Tyr Leu Asp Asp Arg Asn Thr Phe
1 5 10 15

<210> 1478
<211> 15
<212> PRT
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<220>
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<400> 1478
Arg Val Glu Tyr Leu Asp Asp Arg Asn Thr Phe Arg His Ser Val
1 5 10 15

<210> 1479
<211> 15
<212> PRT
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<220>
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Ser Val Val Val Pro Tyr Glu Pro Pro Glu Val Gly Ser Asp Cys
1 5 10 15

<210> 1480
<211> 15
<212> PRT
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<220>
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<400> 1480

Pro	Pro	Glu	Val	Gly	Ser	Asp	Cys	Thr	Thr	Ile	His	Tyr	Asn	Tyr
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<211> 15

<212> PRT

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<220>

<223> Synthetic Peptide

<400> 1481

Leu	Thr	Ile	Ile	Thr	Leu	Glu	Asp	Ser	Ser	Gly	Asn	Leu	Leu	Gly
1				5					10					15

<210> 1482

<211> 15

<212> PRT

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<220>

<223> Synthetic Peptide

<400> 1482

Lys	Lys	Pro	Leu	Asp	Gly	Glu	Tyr	Phe	Thr	Leu	Gln	Ile	Arg	Gly
1				5					10					15

<210> 1483

<211> 15

<212> PRT

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<220>

<223> Synthetic Peptide

<400> 1483

Gly	Glu	Tyr	Phe	Thr	Leu	Gln	Ile	Arg	Gly	Arg	Glu	Arg	Phe	Glu
1				5					10					15

<210> 1484

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 1484

Arg	Phe	Glu	Met	Phe	Arg	Glu	Leu	Asn	Glu	Ala	Leu	Glu	Leu	Lys
1				5					10					15

<210> 1485

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 1485

Gly	Phe	Arg	Leu	Gly	Phe	Leu	His	Ser	Gly	Thr	Ala	Lys	Ser	Val
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<210> 1486

<211> 15

<212> PRT

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<220>

<223> Synthetic Peptide

<400> 1486

Leu	Asn	Lys	Met	Phe	Cys	Gln	Leu	Ala	Lys	Thr	Cys	Pro	Val	Gln
1				5					10				15	

<210> 1487

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1487

Gln	Tyr	Ile	Lys	Ala	Asn	Ser	Lys	Phe	Ile	Gly	Ile	Thr	Glu
1				5					10				

<210> 1488

<211> 21

<212> PRT

<213> Plasmodium falciparum

<400> 1488

Asp	Ile	Glu	Lys	Lys	Ile	Ala	Lys	Met	Glu	Lys	Ala	Ser	Ser	Val	Phe
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Asn	Val	Val	Asn	Ser											
					20										

<210> 1489

<211> 16

<212> PRT

<213> Streptococcus Aureus

<400> 1489

Gly	Ala	Val	Asp	Ser	Ile	Leu	Gly	Gly	Val	Ala	Thr	Tyr	Gly	Ala	Ala
1					5				10					15	

<210> 1490

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

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<222> (3)..(3)
<223> Xaa = cyclohexylalanine, Phe or Tyr

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<400> 1490
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<210> 1491
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<220>
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<400> 1491
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1 5

<210> 1492
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<400> 1492
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1 5